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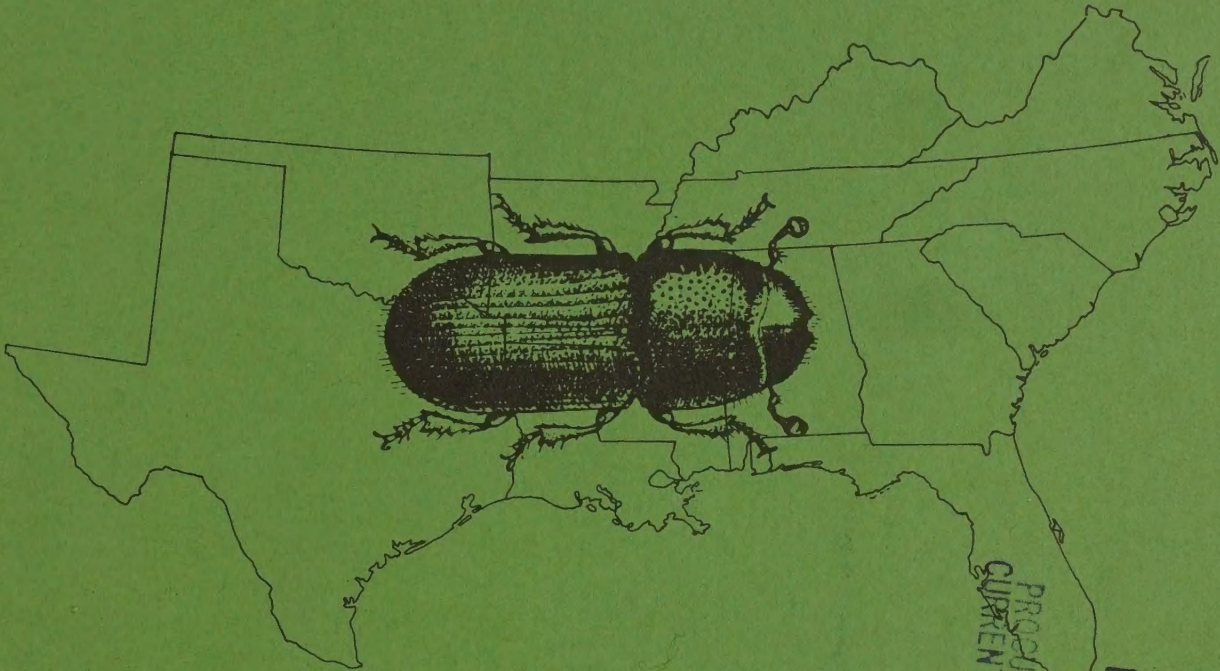


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# SOUTHEASTERN AREA

## SOUTHERN PINE BEETLE OUTBREAK STATUS

### January 1975



Compiled By  
U. S. Forest Service  
SOUTHEASTERN AREA  
State and Private Forestry  
Atlanta, Georgia

PROCUREMENT SECTION  
CURRENT SERIAL RECORDS

DEC 13 '77

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# SOUTHERN PINE BEETLE

## FY 1975 Status Summary

Ownership	Infested Volume Salvaged		Funds Expended	Acreage <sup>1/ 3/</sup> Treated
	MBF	MCF	\$	acres
State & Private	92,690	28,449	1,019,880 <sup>2/</sup>	45,666
Federal	21,086	1,875	349,141	4,928
SA Total	113,776	30,324	1,369,021	50,594

1/ Estimated combined total acreage of salvaged infested, piled and burned, and chemically treated trees.

2/ Cooperative State projects financed 50% State - 50% Federal.

3/ Salvage treatment acreage calculated from salvage volumes at 800 cubic feet per acre; pile and burn and chemical treatment acreages are not included for all State and Private lands.

### Outlook for the Remainder of FY 1975

Ownership	Total Acreage of Susceptible Host Type in SA <sup>4/ 5/</sup>	Net Acreage of Host Type in Outbreak	Balance of Federal Funds Requested for Control Projects
State & Private	90,517,200	49,339,592	\$ 717,878
Federal	9,690,100	2,908,797	\$ 333,717
SA Total	100,207,300	52,248,389	\$ 1,051,595

4/ Includes longleaf, slash, sand, and spruce pine acreages not previously included for some States.

5/ Includes susceptible host type acreage in Kentucky and Oklahoma not currently in the outbreak area.



States with Cooperative Suppression Projects - 9:

Alabama	Louisiana	South Carolina
Arkansas	Mississippi	Texas
Georgia	North Carolina	Virginia

Federal Administrative Units with Suppression Projects - 12:

National Forests in Alabama  
Eglin Air Force Base, Florida  
Chattahoochee - Oconee National Forests, Georgia  
Kisatchie National Forest, Louisiana  
National Forests in Mississippi  
National Forests in North Carolina  
Francis Marion - Sumter National Forests, South Carolina  
Cherokee National Forest, Tennessee  
Oak Ridge National Laboratory, Atomic Energy Commission, Tennessee  
National Forests in Texas  
George Washington National Forest, Virginia  
Jefferson National Forest, Virginia

Summary

Outbreak intensity, expressed as infested counties, remained relatively static in the area from Alabama to Texas. Florida joined the infested Atlantic Coast States for the first time, contributing one county in this area north to Virginia which experienced a gain of 29 counties since last July. A total of 376 counties are now included within the outbreak boundary.

State and U.S. Forest Service entomologists forecast a continuation of aggressive beetle activity from Florida to Virginia and slight seasonal increases in the Alabama to Texas area.

## APPENDIX





Appendix Table 1. Area of Susceptible Host Types in the Southeast by Ownership Class.<sup>1/</sup>  
(thousand acres)

State	Ownership	Loblolly	Shortleaf	Pitch	Slash	Longleaf	Oak - Pine	Pond	Longleaf Slash	Shortleaf Loblolly	Virginia	Other Pines <sup>2/</sup>	Total
Alabama	Private	--	--	--	--	--	4,614.5	--	1,854.4	7,132.3	--	--	13,601.2
	Public	--	--	--	--	--	220.4	--	144.3	305.5	--	--	670.2
	Total	--	--	--	--	--	4,834.9	--	1,998.7	7,437.8	--	--	14,271.4
Arkansas	Private	--	--	--	--	--	2,466.6	--	--	2,982.5	--	--	5,449.1
	Public	--	--	--	--	--	573.0	--	--	685.5	--	--	1,258.5
	Total	--	--	--	--	--	3,039.6	--	--	3,668.0	--	--	6,707.6
Florida	Private	339.9	34.5	--	4,896.1	1,132.0	1,365.0	261.8	--	--	--	235	8,264.3
	Public	4.5	--	--	528.8	399.6	303.3	81.8	--	--	--	277.7	1,595.7
	Total	344.4	34.5	--	5,424.9	1,531.6	1,668.3	343.6	--	--	--	512.7	9,860.0
Georgia	Private	4,818.4	1,637.9	--	3,934.4	1,500.8	3,350.7	285.0	--	--	265.0	3.7	15,795.9
	Public	256.3	97.4	--	165.5	109.2	289.2	19.5	--	--	35.4	14.4	986.9
	Total	5,074.7	1,735.3	--	4,099.9	1,610.0	3,639.9	304.5	--	--	300.4	18.1	16,782.8
Kentucky	Private	--	--	--	--	--	443.5	--	--	--	--	326.2	769.7
	Public	--	--	--	--	--	113.9	--	--	--	--	41.5	155.4
	Total	--	--	--	--	--	557.4	--	--	--	--	367.7	925.1
Louisiana	Private	--	--	--	--	--	2,034.4	--	1,068.6	4,161.4	--	--	7,264.4
	Public	--	--	--	--	--	135.0	--	151.5	277.9	--	--	564.4
	Total	--	--	--	--	--	2,169.4	--	1,220.1	4,439.3	--	--	7,828.8
Mississippi	Private	--	--	--	--	--	2,969.8	--	1,051.6	3,718.8	--	--	7,740.2
	Public	--	--	--	--	--	402.2	--	283.8	523.8	--	--	1,209.8
	Total	--	--	--	--	--	3,372.0	--	1,335.4	4,242.6	--	--	8,950.0
North Carolina	Private	3,009.6	1,037.1	32.9	32.5	359.6	3,326.4	1,181.0	--	--	780.2	117.6	9,876.9
	Public	111.7	42.6	13.0	--	102.5	230.2	227.6	--	--	8.9	41.5	778.0
	Total	3,121.3	1,079.7	45.9	32.5	462.1	3,556.6	1,408.6	--	--	789.1	159.1	10,654.9
Oklahoma	Private	--	--	--	--	--	568.2	--	--	675.6	--	--	1,243.8
	Public	--	--	--	--	--	96.1	--	--	119.7	--	--	215.8
	Total	--	--	--	--	--	664.3	--	--	795.3	--	--	1,459.6
South Carolina	Private	2,588.9	772.9	4.6	501.6	388.4	1,970.8	344.7	--	--	151.7	8.7	6,732.3
	Public	327.6	101.2	--	72.6	118.9	154.0	40.7	--	--	10.9	--	825.9
	Total	2,916.5	874.1	4.6	574.2	507.3	2,124.8	385.4	--	--	162.6	8.7	7,558.2
Tennessee	Private	--	--	--	--	--	998.7	--	--	847.8	--	17	1,863.5
	Public	--	--	--	--	--	199.3	--	--	151.0	--	21.9	372.2
	Total	--	--	--	--	--	1,198.0	--	--	998.8	--	38.9	2,235.7
Texas	Private	--	--	--	--	--	2,241.9	--	347.9	4,315.0	--	--	6,904.8
	Public	--	--	--	--	--	64.2	--	10.6	593.7	--	--	668.5
	Total	--	--	--	--	--	2,306.1	--	358.5	4,908.7	--	--	7,573.3
Virginia	Private	1,077.6	323.8	32.4	--	--	2,326.8	2.6	--	--	1,174.4	72.7	5,010.3
	Public	38.3	15.2	31.2	--	--	210.5	--	--	--	71.3	21.4	387.9
	Total	1,115.9	339.0	63.6	--	--	2,537.3	2.6	--	--	1,245.7	94.1	5,398.2
Total	Private	11,834.4	3,806.2	69.9	9,364.6	3,380.8	28,677.3	2,075.1	4,322.5	23,833.4	2,371.3	780.9	90,516.4
	Public	738.4	256.4	44.2	766.9	730.2	2,991.3	369.6	590.2	2,657.1	126.5	418.4	9,689.2
	All Ownership	12,572.8	4,062.6	114.1	10,131.5	4,111.0	31,668.6	2,444.7	4,912.7	26,490.5	2,497.8	1,199.3	100,205.6

<sup>1/</sup> Data extracted from U.S. Forest Service Resource Bulletins published by the Southern and Southeastern Forest Experiment Stations.  
<sup>2/</sup> Includes sand, spruce, table mountain, and white pines.



Table 2.

## SITUATION AND ACCOMPLISHMENT 1972 - 1974

State	Ownership	FY 1972				FY 1973				FY 1974			
		Gross Outbreak Area 1/	Federal Funds Expended \$	Infested Volume Salvaged MBF	MCF	Gross Outbreak Area 1/	Federal Funds Expended \$	Infested Volume Salvaged MBF	MCF	Gross Outbreak Area 1/	Federal Funds Expended \$	Infested Volume Salvaged MBF	MCF
Alabama	Private Federal Total	--- 203,000 203,000	--- 13,293 13,293	--- 804 804	--- --- ---	15,000,000 500,000 15,500,000	500,000 180,064 680,064	66,722 6,194 72,916	20,377 502 20,839	15,000,000 1,270,240 16,270,240	475,000 74,658 549,658	28,843 1,815 30,658	12,670 185 12,855
Arkansas	Private Federal Total	--- --- ---	--- --- ---	--- --- ---	--- --- ---	645,000 --- 645,000	22,952 --- 22,952	879 --- 879	188 --- 188	1,336,000 --- 1,336,000	21,285 --- 21,285	341 --- 341	160 --- 160
Georgia	Private Federal Total	2,000,000 296,690 2,296,690	988 10,960 11,948	290 4,767 5,057	--- --- ---	9,200,000 700,000 9,900,000	38,000 51,396 89,396	3,920 6,431 10,351	2,717 628 3,345	9,018,130 1,336,132 10,354,262	96,000 50,124 146,124	31,282 3,937 35,219	13,099 315 13,414
Louisiana	Private Federal Total	4,000,000 561,000 4,561,000	26,000 60,630 86,630	16,000 6,550 22,550	450 --- 450	7,500,000 600,000 8,100,000	285,000 59,894 344,894	17,826 2,742 20,568	2,668 411 3,079	6,800,000 1,017,287 7,817,287	100,000 32,000 132,000	1,292 820 2,112	158 33 191
Mississippi	Private Federal Total	--- 188,615 188,615	--- 17,168 17,168	--- 3,000 3,000	--- --- ---	1,600,000 200,000 1,800,000	44,960 50,034 94,994	240 2,513 2,753	518 10 528	1,652,600 373,497 2,026,097	56,210 36,618 92,828	830 3,351 4,181	451 0 451
North Carolina	Private Federal Total	4,327,717 631,220 4,958,937	9,579 21,110 30,689	21,025 900 21,925	--- --- ---	6,700,000 600,000 7,300,000	62,841 41,448 104,289	20,143 2,012 22,155	2,351 110 2,461	13,500,000 2,752,430 16,252,430	110,471 33,000 143,471	41,833 2,459 44,292	6,431 705 7,136
South Carolina	Private Federal Total	514,000 481,479 995,479	--- 22,070 22,070	--- 2,767 2,767	113 --- 113	3,600,000 1,300,000 4,900,000	--- 55,183 55,183	544 2,902 3,446	558 814 1,372	3,900,000 1,474,444 5,249,444	47,500 35,250 82,750	5,101 3,120 8,221	10,725 377 11,102
Tennessee	Private Federal Total	--- 50,000 50,000	--- 15,700 15,700	--- 579 579	--- --- ---	--- 80,000 80,000	--- 22,350 22,350	--- 341 341	--- 69 69	1,714,984 338,136 2,053,120	--- 27,068 27,068	676 620 1,296	9 121 130
Texas	Private Federal Total	6,200,000 80,000 6,280,000	45,000 4,800 49,800	2,000 300 2,300	--- --- ---	8,000,000 700,000 8,700,000	165,000 56,924 221,924	28,000 4,847 32,847	811 185 996	8,000,000 1,716,967 9,716,967	185,000 140,835 325,835	4,941 17,004 21,945	381 643 1,024
Virginia	Private Federal Total	--- --- ---	--- --- ---	--- --- ---	--- --- ---	4,600,000 71,485 4,671,485	--- 9,460 9,460	6,000 180 6,180	2,700 497 3,197	6,889,600 3,689 6,963,289	9,500 15,910 25,410	11,326 2,500 13,826	4,090 729 4,819
SA TOTALS	Private Federal Total	17,041,717 2,492,004 19,533,721	\$ 81,567 \$ 165,731 \$ 247,298	39,315 19,667 58,982	563 --- 563	56,845,000 4,751,485 61,596,485	\$ 1,118,753 \$ 526,753 \$ 1,645,506	144,274 28,162 172,436	32,848 3,226 36,074	67,686,314 10,352,822 78,039,136	\$ 1,100,966 \$ 445,463 \$ 1,546,429	126,990 35,626 162,616	48,175 3,108 51,283

1/ Total acreage of all counties within outbreak area. See Table 4.

Table 3. Southern Pine Beetle Status - FY 1975

State	Ownership	Federal Funds		Infested Volume Salvaged MBF	First Half FY 1975 MCF	Total Acreage of Host Type 1/	Net Acreage of Host Type in Current Outbreak 1/	Current Status and Course of Outbreak
		Requested	Received First Half FY 1975					
Alabama	Private	500,000	150,000	5,878	5,608	13,601,200	9,633,200	Population levels are increasing in the north and decreasing in the south with most infestations appearing in the Piedmont and Northwest. Overall populations are down from the initial outbreak in 1972. There are 33 counties with epidemic populations and 16 counties with endemic populations.
	Federal	75,247	35,624	387	81	670,200	636,712	Most infestations are occurring in the extreme southeastern part of the State. Levels have dropped off in Drew, Ashley, and Bradley Counties and increased in Union County.
	Total	579,247	189,624	6,265	5,689	14,271,400	10,269,912	The worst outbreak in 25 years was recently discovered in the Alaqua Creek area of Eglin Air Force Base. Evaluations indicate high population pressures in this area. Only one county, Walton, is involved.
Arkansas	Private	25,190	25,190	425	167	5,449,100	938,900	Spots have increased in 42 counties, decreased in 32 and remained static in 5. The outbreak in the Chatham county area has spread to 3 additional counties since July. However, a 90% reduction in the number of spots has occurred.
	Federal	---	---	---	---	1,258,500	---	Population levels overall have decreased and remain at endemic levels throughout the State. Some buildup is expected.
	Total	25,190	25,190	425	167	6,707,600	938,900	Populations remain static with decreased activity in the southwestern portions of the State. In northeastern areas, activity is spreading, and an increase in infestation levels is expected.
Florida	Private	27,233 2/	---	---	---	8,265,100	119,900	The outbreak continues to increase throughout the State with a high potential for heavy losses this summer. A current aerial survey is showing dramatic increases in the numbers and size of spots.
	Federal	27,233	---	---	---	1,595,700	39,900	Losses are low to moderate throughout most of the outbreak area. Populations are extremely high in most coastal counties and the potential for many losses is high this spring and summer. Piedmont populations are static and unpredictable.
	Total	27,233	---	---	---	9,860,800	159,800	Scattered infestations are increasing rapidly in two newly infected counties, and enlarging in all counties in the current outbreak. Tennessee should experience its heaviest losses to date this summer.
Georgia	Private	215,000	107,500	10,402	3,168	15,795,900	7,768,000	Populations remain high and are expected to stay at about the same level next year. Activity is heaviest in the western half of the outbreak area but continues to spread to the north and northeast.
	Federal	52,000	31,400	3,875	239	986,900	415,170	Populations remain at high static levels in the central Piedmont with continued upswing in the Coastal Plain and northern Piedmont counties. Woodpecker predation is higher this winter. Overwintering beetle populations remain high due to the mild winter.
	Total	267,000	138,900	14,277	3,407	16,782,800	8,183,170	
Louisiana	Private	35,000	---	1,119	127	7,264,400	5,300,300	
	Federal	48,400	24,200	2,909	167	564,400	322,400	
	Total	83,400	24,200	4,028	294	7,828,800	5,622,700	
Mississippi	Private	43,250	21,625	256	147	7,740,200	2,059,400	
	Federal	61,824	32,637	1,781	---	1,209,800	250,242	
	Total	105,074	54,262	2,037	147	8,950,000	2,309,642	
North Carolina	Private	154,878	78,375	41,089	7,671	9,876,900	8,947,227	
	Federal	27,885	27,885	1,117	304	778,000	158,818	
	Total	182,763	106,260	42,206	7,975	10,654,900	9,106,045	
South Carolina	Private	40,000	20,000	10,592	8,908	6,732,300	5,054,100	
	Federal	72,105	17,500	1,900	373	826,800	292,554	
	Total	112,105	37,500	12,492	9,281	7,559,100	5,346,654	
Tennessee	Private	---	---	170	21	1,863,500	868,046	
	Federal	10,200	5,100	564	168	372,200	135,244	
	Total	10,200	5,100	734	189	2,235,700	1,003,290	
Texas	Private	200,000	100,000	9,360	556	6,904,800	5,768,463	
	Federal	247,849	153,295	8,533	537	668,500	556,537	
	Total	447,849	253,295	17,893	1,093	7,573,300	6,345,000	
Virginia	Private	14,500	7,250	13,399	2,076	5,010,300	2,862,056	
	Federal	35,000	17,500	20	6	387,900	101,220	
	Total	49,500	24,750	13,419	2,082	5,398,200	2,963,276	
SA Totals	Private	1,227,818	509,940	92,690	28,449	88,503,700	49,339,592	
	Federal	661,743	349,141	21,086	1,875	9,318,900	2,908,797	
	Total	1,889,561	859,081	113,776	30,324	97,822,600	52,248,389	

1/ Figures include longleaf, slash, sand, and spruce pine acreages not previously included. Addition reflects the significant increase of beetle infestations of these pine species previously thought to be of minor importance as hosts.

2/ Anticipated request; proposal not received by February 28, 1975.



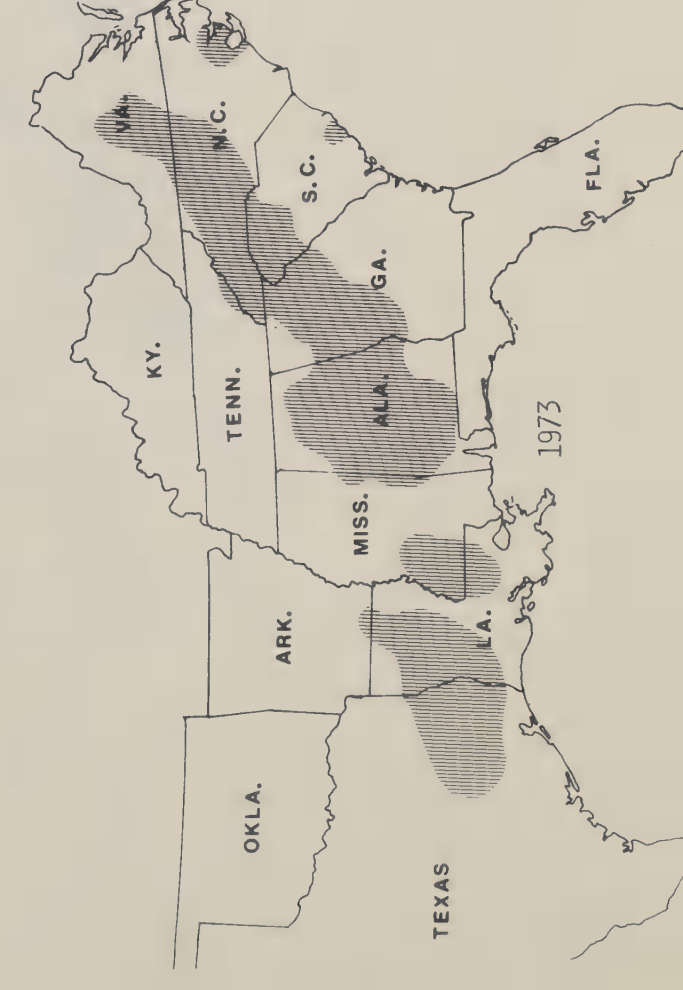
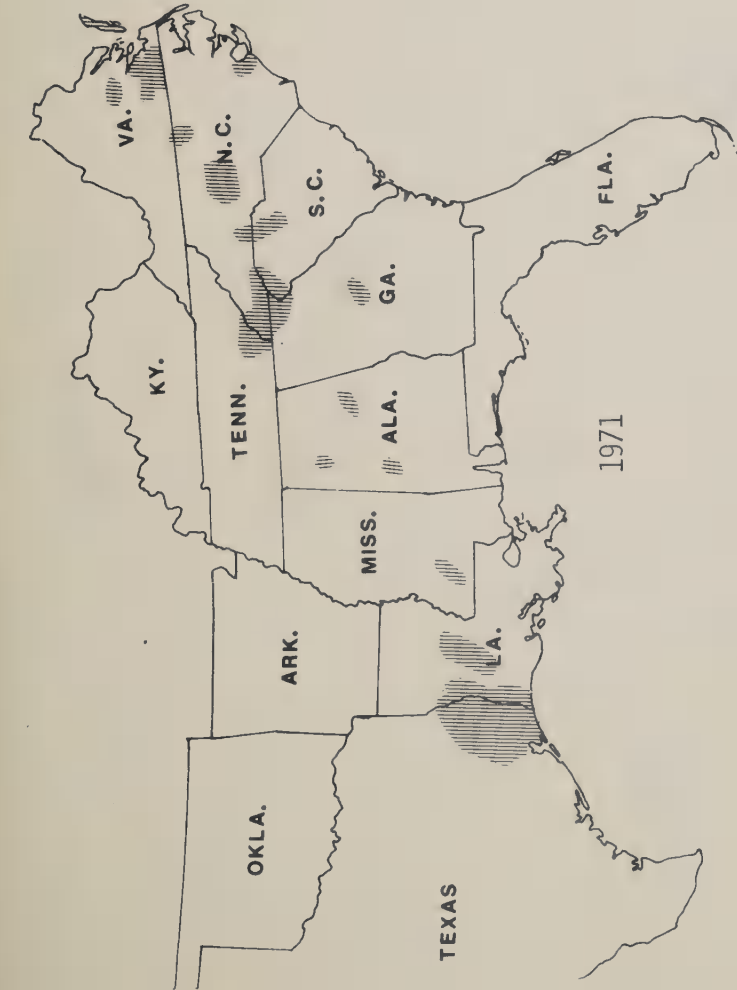
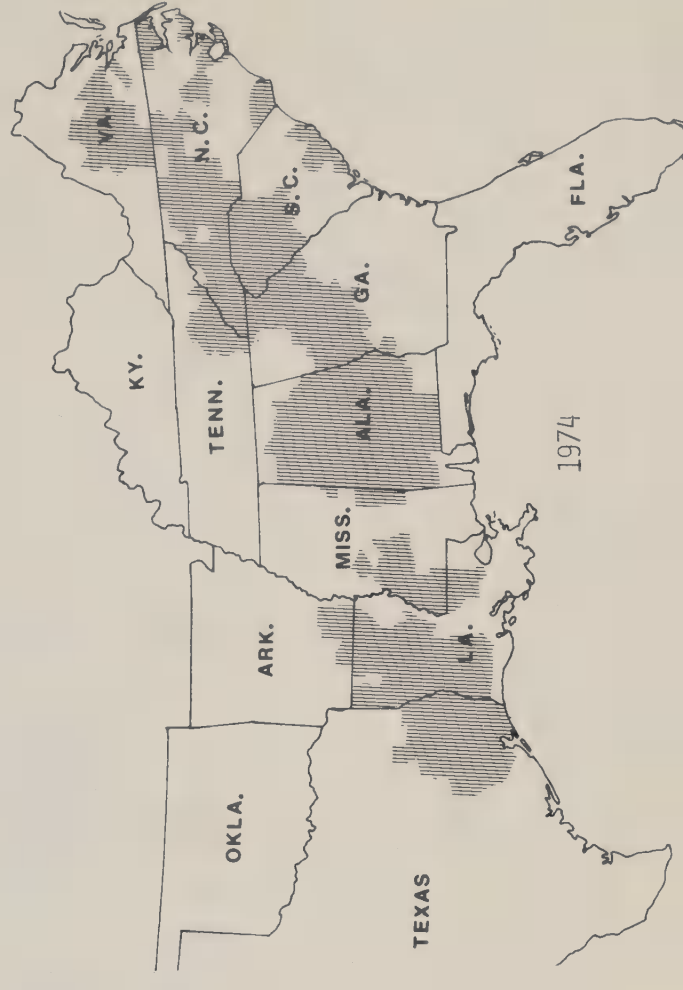
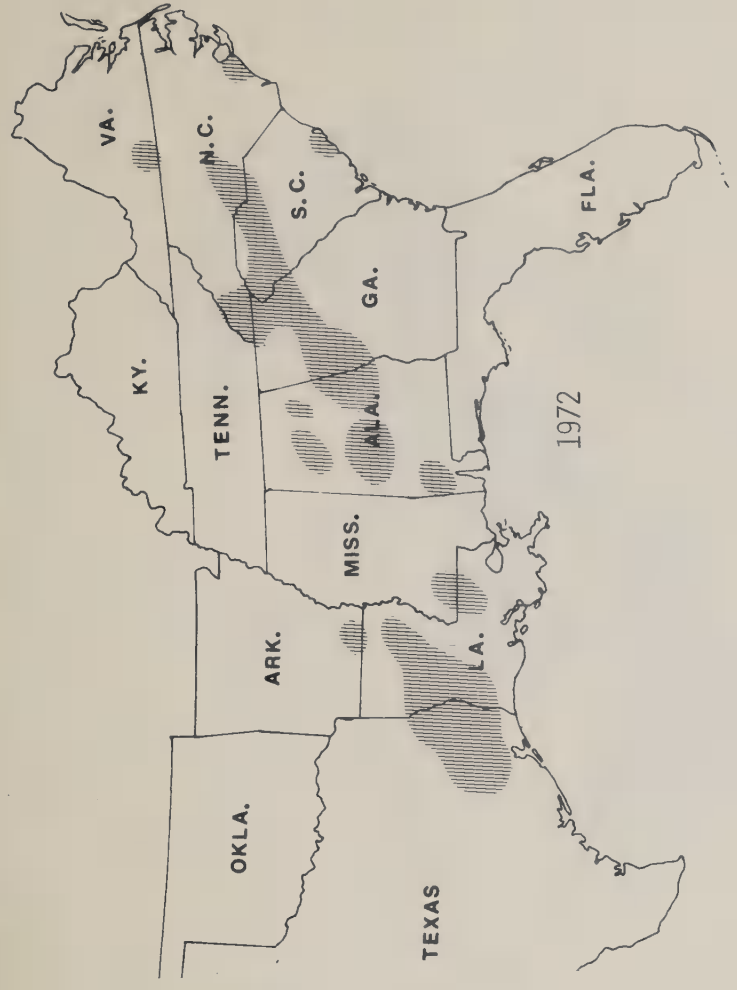
Table 4. Southern Pine Beetle Outbreak Intensity, January 1975.

State	Total Number of Counties in State	Number of Counties w/Susceptible Host Type in State <sup>1/</sup>	Number of Infested Counties in Current Outbreak			
			Jul 73	Jan 74	Jul 74	Jan 75
Alabama	67	67	53	53	50	49
Arkansas	75	47	4	2	4	4
Florida	67	67	0	0	0	1
Georgia	159	158	58	56	70	79
Louisiana	64	38	31	31	21	22
Mississippi	82	69	17	18	14	14
North Carolina	100	100	60	71	81	89
South Carolina	46	46	22	22	26	28
Tennessee	95	55	10	13	13	15
Texas	254	44 <sup>2/</sup>	22	22	26	26
Virginia	98	87	26	27	42	49
SA Total	1,107	778	303	315	347	376

<sup>1/</sup> Susceptible host types include loblolly, shortleaf, pitch, pond, Virginia, table mountain, longleaf, slash, sand, spruce, and white pines.

<sup>2/</sup> East Texas counties only.

FIGURE 1 CHRONOLOGICAL DEVELOPMENT OF THE SOUTHERN PINE BEETLE OUTBREAK FY 1971 - FY 1974







# SOUTHEASTERN AREA

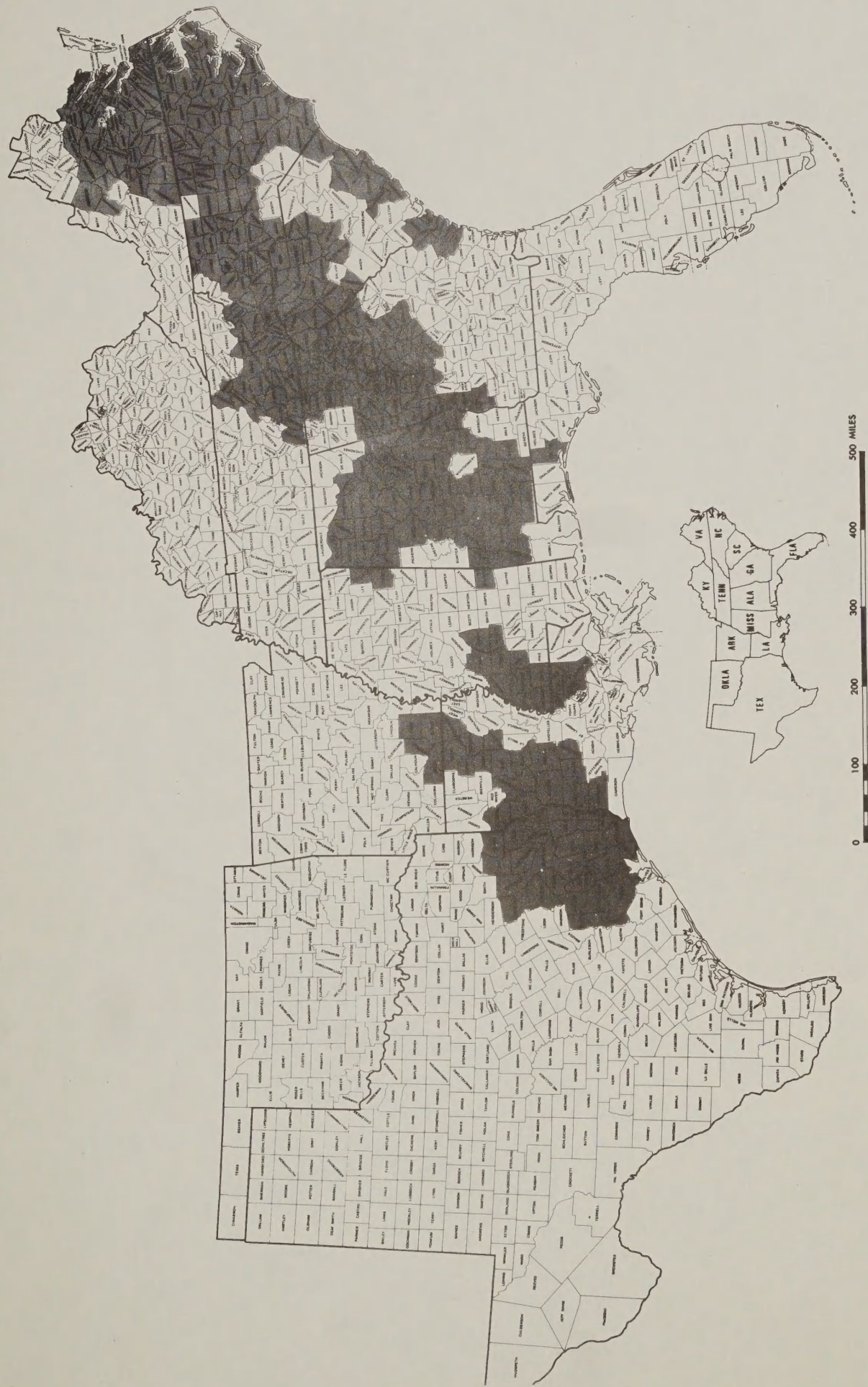


FIGURE 2 FY 1975 LOCATION OF SOUTHERN PINE BEETLE OUTBREAK, SOUTHEASTERN AREA









